

Title (en)

MULTIPLE CHAIN WHEEL ASSEMBLY FOR A REAR WHEEL HUB

Title (de)

MEHRFACH-KETTENRADANORDNUNG FÜR EINE HINTERRADNABE

Title (fr)

SYSTEME DE ROUE D'ENTRAÎNEMENT MULTIPLE POUR UN MOYEU DE ROUE ARRIERE

Publication

EP 3009339 B1 20200909 (DE)

Application

EP 15002885 A 20151009

Priority

- DE 102014014972 A 20141014
- DE 102015219522 A 20151008

Abstract (en)

[origin: US2016101825A1] A multi-sprocket arrangement for a rear wheel hub of a bicycle may have improved gearshift characteristics, reduced vibrations during skewed running, and improved wear characteristics. The multi-sprocket arrangement includes a multiplicity of sprockets of different diameters, wherein at least one of the sprockets has a multiplicity of teeth. Also on the circumference of said sprocket, as viewed in a circumferential direction, at least one sequence of teeth is provided in which, with regard to their material thickness, a thin tooth is followed by a thick tooth which is followed in turn by another thin tooth. The sprocket has an impression and/or a passage recess which form at least one gearshift path and permit a shift between two adjacent sprockets.

IPC 8 full level

B62M 9/10 (2006.01)

CPC (source: CN EP US)

B62M 9/10 (2013.01 - EP US); **B62M 9/12** (2013.01 - EP US); **B62M 9/121** (2013.01 - CN EP)

Citation (examination)

DE 102014007274 A1 20141120 - SHIMANO KK [JP]

Cited by

DE202020000984U8; EP4011756A1; DE202020000984U1; EP3339158B1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3009339 A1 20160420; **EP 3009339 B1 20200909**; CN 105644700 A 20160608; CN 105644700 B 20191122; CN 110901823 A 20200324; CN 110901823 B 20210615; CN 113212633 A 20210806; CN 113212633 B 20221115; DE 102015219522 A1 20160414; EP 3770054 A1 20210127; TW 201623084 A 20160701; TW 202028055 A 20200801; TW 202321106 A 20230601; TW I688514 B 20200321; TW I773985 B 20220811; TW I805497 B 20230611; US 10800488 B2 20201013; US 11866126 B2 20240109; US 2016101825 A1 20160414; US 2018170480 A1 20180621; US 2021053651 A1 20210225; US 9873481 B2 20180123

DOCDB simple family (application)

EP 15002885 A 20151009; CN 201511028484 A 20151014; CN 201911191452 A 20151014; CN 202110597951 A 20151014; DE 102015219522 A 20151008; EP 20000324 A 20151009; TW 104133530 A 20151013; TW 109113498 A 20151013; TW 111136467 A 20151013; US 201514883564 A 20151014; US 201715844070 A 20171215; US 202017015851 A 20200909